

ABSTRACT

This case is about between the transmission rotating shaft of the electric machinery and the electric machinery rotor or between the transmission rotating shaft of the electric machinery rotor and the transmission element driven, there is installed reversible activation helical structure consist of helical nut structure or ball bearing or roller bearing helical nut structure and there is installed axial pre-stressed spring, and depending on the magnitude of the reverse torque between the electric machinery rotor and the loading and the driven direction status, to control the electric machinery rotor to perform axial displacement, and further to modulate the electric machinery characteristics between the electric machinery rotor and the electric machinery magnetic field or to pull the selected control mechanism or testing device.